

IN THE SPECIFICATION

Please replace the paragraphs at page 68, lines 26-34 with the following amended paragraphs:

Scaffold like CCPN's type A's: 3'-GCGCNNNNNGGCG-5' (SEQ ID NO:1)

One specific scaffold e.g. the one illustrated above could e.g. have the specific sequence: 3'-GCGCATTAGGCG-5'. (SEQ ID NO:2)

Another scaffold type A, demanding the same chemistries but having another skeleton could have the specific sequence: 3'-GCGCTTAAGGCG-5' (SEQ ID NO:3) etc.

Scaffold like CCPN's type B's: 3'-AATTNNNNTAAT-5' (SEQ ID NO:4)

Please replace the paragraphs at page 69, lines 1-23 with the following amended paragraphs:

One specific scaffold e.g. the one illustrated above could e.g. have the specific sequence: 3'-AATTGCCGTAAT-5' (SEQ ID NO:5)

Another scaffold type A, demanding the same chemistries but having another skeleton could have the specific sequence: 3'-AATTGGGTAAT-5' (SEQ ID NO:6) etc.

Suzuki type CCPN's: 3'-TTTTGAGANNNAAGGTTTT-5' (SEQ ID NO:7)

One specific Suzuki type CCPN e.g. C1 illustrated above could e.g. have the specific sequence: 3'-

TTTTGAGATTCCAAGGTTTT-5' (SEQ ID NO:8). Another Suzuki type CCPN could e.g. have the sequence 3'-TTTGAGACTCAAGGTTTT-5' (SEQ ID NO:9).

Acylation type CCPN's: 3'-GTTGNNNNTTGG-5' (SEQ ID NO:10)

Alkylation type CCPN's: 3'-AACCNNNNACCA-5' (SEQ ID NO:11)

HWE/Wittig type CCPN's: 3'-TTCCNNNNCTCT-5' (SEQ ID NO:12)

CPN type 1a sequences: 3'-NNNNCTCAAAAACGCCNNNGCGC-5' (SEQ ID NO:13)

One specific type of these would be 3'-GGAATCTCAAAAACGCCTAATGCGC-5' (SEQ ID NO:14) this CPN would allow the hybridization of CCPN type A and CCPN type C1.

Another specific sequence would allow the hybridization of e.g. C2 instead of C1 but not C3-C7 etc.

Please replace the paragraphs at page 69, lines 29-31 with the following amended paragraphs:

CPN type 2a sequences: 3'-TGGTNNNNGGTCCAANNNAACAAAAACCTT-5' (SEQ ID NO:15)

CPN type 2b sequences: 3'-CCAANNNAACAAAAACCTT-5' (SEQ ID NO:16)

Please replace the paragraphs at page 72, lines 6-12 with the following amended paragraphs:

CCPN1: 3'-GT-GGTITITI-5' (SEQ ID NO:17)

CCPN2: 3'-TG-GGTITITI-5' (SEQ ID NO:18)

CCPN3: 3'-GTITTTITI-TTTT-GGTITITI-5' (SEQ ID NO:19)

CCPN4: 3'-**GT**TTT**TTT**-GGGG-**GG**TITITI-5' (SEQ ID NO:20)

CCPN5: 3'-**GT**TTT**TTT**-GTGT-**GG**TITITI-5' (SEQ ID NO:21)

CCPN6: 3'-**GT**TTT**TTT**-TG-5' (SEQ ID NO:22)

CCPN7: 3'-**GT**TTT**TTT**-TT-5' (SEQ ID NO:23)

*Please replace the paragraph at page 72, line 23
with the following amended paragraph:*

CPN1: 3'-NN-CACA**AC**C-**AC**ACAC**CC**-NN-5' (SEQ ID NO:24)

Please replace the paragraphs at page 73, lines 11-12 with the following amended paragraphs:

Terminator1: 3'-CACAC**AC**C-NN-5' (SEQ ID NO:25)

Terminator2: 3'-**GT**TTT**TTT**-NN-5' (SEQ ID NO:26)

*Please replace the paragraphs at page 74, lines 3-15
with the following amended paragraphs:*

CPN1: 5'-pGCNNNNNACGCGANNNTACGTANNNTGTCACNNNNTCGTCA
NNNNNGC-3' (SEQ ID NO:27)

CPN2: 5'-pGCNNNNNTCATCTNNNNNGCTACNNNNNGC-3' (SEQ ID
NO:28)

CCPN1: 5'-GCCTATGTGACGAATCTGTG-XXXXX-GATTC-Y-3'
(SEQ ID NO:29 before XXXXX, SEQ ID NO:30 after; X is PEG-linker)

CCPN2: 5'-Z-GAATC-XXXXX-ATGCGTACCGCGATTGATGCP-3'
(SEQ ID NO:31 before XXXXX, SEQ ID NO:32 after)

CCPN3: 5'-Z-GAATC-XXXXX-CGCTGCAAGATGAATTCTGCP-3'
(SEQ ID NO:33 before XXXXX, SEQ ID NO:34 after)

Linker polynucleotides for CPN amplification:

LP1: 5'-GATTCCTAGGATGCATATTACA (SEQ ID NO:35)

LP2: 3'-CTAAGGATCCTACGTATAATGTCG (SEQ ID NO:36)

LP3: 3' -GTCAATGCTGATGACGTP (SEQ ID NO:37)

LP4: 5' -CAGTTACGACTACTGCAGC (SEQ ID NO:38)

Please delete the paragraph at page 74, line 18 and insert in its place the following new paragraph:

AP1: 5' -B-T_{in}T_{in}GATTCCTAGGATGCATATTACAGC-3' (SEQ ID NO:39)

Please replace the paragraph at page 74, line 20 with the following amended paragraph:

AP2: 5' -CAGTTACGACTACTGCAGC-3' (SEQ ID NO:40)

Please replace the paragraph at page 74, line 28 with the following amended paragraph:

SP: 5' -GATTCCTAGGATGCATATTAC (SEQ ID NO:41)

Please delete the paragraphs at page 81, lines 21-35 and insert in their place the following new paragraphs:

AH140: 5' -

AGCTGGATGCTCGACAGGTCAGGTGATCCGCCTTACCAGTCTGAACGTAGTCGTCCGATGCAATCCAGAGGTCG (SEQ ID NO:42)

AH 154: 5' -

AGCTGGATGCTCGACAGGTCAAGTAACAGGTCGATCCGCCTTACCAGTCTGAACGTAGTCGTCCGATGCAATCCAGAGGTCG (SEQ ID NO:43)

AH 155: 5' -

CTGGTAACCGCGGATCGACCTGTTACX (SEQ ID NO:44)

AH 202: 5' -TCTGGATTGCATCGGGTTACX (SEQ ID NO:45)

AH 251: 5' - ZGACCTGTCGAGCATCCAGCTPB (SEQ ID NO:46)

AH 270: 5' - 6GTAACGACCTGTCGAGCATCCAGCT (SEQ ID NO:47)

AH 272: 5' -ACGACTACGTCAGGCAAGAGTTACX (SEQ ID NO:48)

AH 284: 5' -

AGCTGGATGCTCGACAGGTCAAGTAACAGGTCGATCCGCCTTACCGTTACCGCCCATAGCTGGCTTGC (SEQ ID NO:49)

*Please replace the paragraphs at page 82, lines 2-33
with the following amended paragraphs:*

AH 292: 5' -

GGCATGGTCCATCGACTGCAATATGCAAGCCGCAAGCTATGGC (SEQ ID NO:50)

AH 293: 5' -

GGCATGGTCCATCGACTGCAATATCGTATAGCAAGCCGCAAGCTATGGC (SEQ ID NO:51)

AH 294: 5' -

GGCATGGTCCATCGACTGCAATATCGTTACGGCATTACCGCAAGCCGCAAGCTATG
GGC (SEQ ID NO:52)

AH 295: 5' -

GGCATGGTCCATCGACTGCAATATCGTTACGGCATTACCATATCGTTACGGCATT
ACCGCAAGCCGCAAGCTATGGC (SEQ ID NO:53)

AH 296: 5' -

GGCATGGTCCATCGACTGCAATATCGTTACGGCATTACCATATCGTTACGGCATT
ACCATATCGTTACGGCATTACCGCAAGCCGCAAGCTATGGC (SEQ ID NO:54)

AH 298: 5' -

GGCATGGTCCATCGACTGCAGCAAGCCGCAAGCTATGGC (SEQ ID NO:55)

AH 325: 5' - CTTATAACCTTGTAGCCG

TCTTGCTGAACGTAGTCGTCCGATGCAATCCAGAGGTCG (SEQ ID NO:56)

AH 326: 5' - CTTATAACCTTGTAGCCG

TCTTGCTGAACGTAGTCGTTCCGATGCAATCCAGAGGTCG (SEQ ID NO:57)

AH 327: 5' - CTTATAACCTTGTAGCCG

TCTTGCTGAACGTAGTCGTACTTCCGATGCAATCCAGAGGTCG (SEQ ID NO:58)

AH 328: 5' - CTTATAACCTTGTAGCCG

TCTTGCTGAACGTAGTCGTTGACTTCCGATGCAATCCAGAGGTCG (SEQ ID NO:59)

AH 329: 5' -

CTTATACCTTGTAGCCGTCTGCCTGAACGTAGTCGTGGTACTTCCGATGCAA
TCCAGAGGTCTG (SEQ ID NO:60)

AH330: 5' -

CGGCTACAACAAGGTATAAGAAAAACATCGTAGGATTCTTCCTACGATGGCAAGCC
GCAAGCTATGGC (SEQ ID NO:61)

AH332: 5' -

CGGCTACAACAAGGTATAAGAAAAACAGGATTCTTCCTGGCAAGCCGCAAGCTATG
GGC (SEQ ID NO:62)

*Please delete the paragraphs at page 83, lines 1-35
and insert in their place the following new paragraphs:*

AH 351: 5' -

CTTATACCTTGTAGCCGTCTGCCTGAACGTAGTCGTGGTACTTGGCCGATGC
AATCCAGAGGTCTG (SEQ ID NO:63)

AH 352: 5' -

CTTATACCTTGTAGCCGTCTGCCTGAACGTAGTCGTGGTACTTGGTGCCGAT
GCAATCCAGAGGTCTG (SEQ ID NO:64)

AH 353: 5' -

CTTATACCTTGTAGCCGTCTGCCTGAACGTAGTCGTGGTACTTGGTACCCG
ATGCAATCCAGAGGTCTG (SEQ ID NO:65)

AH 354: 5' -

CTTATACCTTGTAGCCGTCTGCCTGAACGTAGTCGTGGTACTTGGTACCTTC
CGATGCAATCCAGAGGTCTG (SEQ ID NO:66)

AH 355: 5' -

CTTATACCTTGTAGCCGTCTGCCTGAACGTAGTCGTGGTACTTGGTACCTG
GCCGATGCAATCCAGAGGTCTG (SEQ ID NO:67)

AH 378: 5' - TGCAGTCGATGGACCATGCCAGCTGGATGCTCGACAGGTC
AACCGATGCAATCCAGAGGTCTG (SEQ ID NO:68)

AH 379: 5' - TGCAGTCGATGGACCATGCCAGCTGGATGCTCGACAGGTC
AATCAGGCTGCCGATGCAATCCAGAGGTCTG (SEQ ID NO:69)

AH 380: 5' - CGGTTGAGGTACAGGTCGATCCCGCTTACCAAG

TCTTGCCTGAACGTAGTCGTGCCATAGCTTGGCTTGC (SEQ ID NO:70)

AH 381: 5' - 69GTAACGTACCTCAACCGGACCTGTCGAGCATCCAGCT
(SEQ ID NO:71)

AH 382: 5' -GGTACAGGT~~CGATCCGCGTTACCAG~~
TCTTG~~CCTGAACGTAGTCGTGCCCATAGCTTGC~~GGGCTTGC (SEQ ID NO:72)

AH 383: 5' -GGTACAGGT~~CGATCCGCGTTACCAG~~
GGTACTCTTG~~CCTGAACGTAGTCGTGCCCATAGCTTGC~~GGGCTTGC (SEQ ID
NO:73)

AH 386: 5' -
GTTGAGGTACAGGT~~CGATCCGCGTTACCAGT~~TCTTG~~CCTGAACGTAGTCGTGCC~~CATA
GCTTGC~~GGCTTGC~~ (SEQ ID NO:74)

AH 387: 5' -
TGAGGTACAGGT~~CGATCCGCGTTACCAGT~~TCTTG~~CCTGAACGTAGTCGTGCC~~CATA
GC~~GGCTTGC~~ (SEQ ID NO:75)

AH 388: 5' -
AGGTACAGGT~~CGATCCGCGTTACCAGT~~TCTTG~~CCTGAACGTAGTCGTGCC~~CATA
GC~~GGCTTGC~~ (SEQ ID NO:76)

*Please delete the paragraphs at page 84, lines 1-3
and insert in their place the following new paragraphs:*

AH 392: 5' -CGACCTCTGGATTGCATCGGGTTACZ (SEQ ID NO:77)

AH 393: 5' -ACGACTACGTTCAAGAGTTACZ (SEQ ID NO:78)

AH 394: 5' -CTGGTAACCGGGATCGACCTGTTACZ (SEQ ID NO:79)

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IN THE SEQUENCE LISTING

Please enter the attached Sequence Listing numbered as pages 1-35 (sequences 1-79) .